

REPEATING STEPS (140), (150) AND (160) FOR EACH SET OF WEIGHTS PROVIDED IN STEP (130) TO DETERMINE A PLULARITY OF CORRELATION FACTORS R;

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RANKING SAID PLURALITY OF CORRELATION FACTORS R, WHEREIN A PARTICULAR CORRELATION FACTOR OF SAID PLURALITY OF CORRELATION FACTORS HAVING A PARTICULAR CORRELATION VALUE CLOSEST TO 1 REPRESENTS A BEST RANKING OF THE RESPECTIVE COMBINED METRICS IN STEP (140) FOR EACH SET OF WEIGHTS;

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PROVIDING IMAGE QUALITY INFORMATION TO AT LEAST ONE OF A SYSTEM OPTIMIZER AND THE VIDEO PROCESSING MODULE AS TO THE BEST RANKING OF THE RESPECTIVE COMBINED METRICS OBTAINED IN STEP (i) TO PROVIDE A BEST PERCEPTUAL IMAGE QUALITY

FIG. 1B

WHEN A PREDETERMINED NUMBER OF SETS OF METRICS = n, THE QUADRATIC MODEL TO OBTAIN THE OBJECTIVE EVALUATION F IS:

 $\label{eq:force_force} \begin{aligned} F &= (\sum_{i=1}^{n} w_i x_i)^2, \text{ WHEREIN "n" IS A NON-ZERO VALUE.} \end{aligned}$

FIG. 1C

WHEN A NUMBER OF THE SET OF METRICS = 4, THEN THE QUADRATIC MODEL TO OBTAIN THE OBJECTIVE EVALUATION F IS:

$$F = w^{1}x^{1} + w^{2}x^{2} + w^{3}x^{3} + w^{4}x^{4} + w^{5}x^{1}x^{2} + w^{6}x^{1}x^{3} + w^{7}x^{1}x^{4} + w^{8}x^{2}x^{3} + w^{9}x^{2}x^{4} + w^{10}x^{3}x^{4}$$

FIG. 1D